

The rational light-sensitivity criterion of...

S/058/63/000/001/068/120
A160/A101

field as a whole) for multi-layer color materials. The practical light-sensitivity was determined from the positive pictures obtained by filming and photographing a large number of various-character subject matters according to the standard. The data obtained for 10 black-and-white and 11 color negative films of various sensitivity reveal that all investigated criteria are exponentially equivalent, and that, as a result, the selection of any of them must be determined by considerations differing from those investigated in the literature, and mainly by metrological expediency.

A. Kartuzhanskiy

[Abstracter's note: Complete translation]

Card 2/2

"APPROVED FOR RELEASE: 07/12/2001

CIA-RDP86-00513R000929610017-6

Ultraviolet light, ultraviolet spectra paper photographs, photo-

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estimated in the spectral region of 280-590 nm. The transmission lines for
the spectra of the various samples are shown in Figures 1 through 10.
The following table gives the estimated values.

RECEIVED 10 Mar 64

ENCL: 02

SUB CODE: SS

2000

OTHER: 000

APPROVED FOR RELEASE: 07/12/2001

CIA-RDP86-00513R000929610017-6"

NATAN, Zhak, prof.; GOZIN, I.Ya. [translator]; PAVLENOV, V.F.
[translator]; KIRSHEVSKAYA, A.N., red.; LEVINA, Ye., red.;
RYEKINA, V., tekhn. red.

[History of economic development in Bulgaria] Istoryia ekono-
micheskogo razvitiia Bolgarii. Predisl. i red. A.N.Kirshev-
skoi. Translated from the Bulgarian. Moskva, Izd-vo inostr.
lit-ry, 1961. 498 p. (MIRA 15:3)

1. Deystvitel'nyy chlen Bolgarskoy Akademii nauk (for Natan).
(Bulgaria—Economic conditions)

"APPROVED FOR RELEASE: 07/12/2001

CIA-RDP86-00513R000929610017-6

MIKHAILOV, L.A.; LEVINA, Ye.A.

New foreign drugs. Med.prom. 13 no.1:61-64 Ja '59.
(MIRA 12:10)
(DRUGS)

APPROVED FOR RELEASE: 07/12/2001

CIA-RDP86-00513R000929610017-6"

"APPROVED FOR RELEASE: 07/12/2001

CIA-RDP86-00513R000929610017-6

MIKHEL'SON, L.A.; LEVINA, Ye.A.

New foreign drugs. Med.prom. 13 no.12:55-59 D '59. (MIRA 13:4)
(DRUGS)

APPROVED FOR RELEASE: 07/12/2001

CIA-RDP86-00513R000929610017-6"

"APPROVED FOR RELEASE: 07/12/2001

CIA-RDP86-00513R000929610017-6

MISHEL'SON, L.A.; LINVINA, Ye.A.

New foreign drugs. Med.prom. 14 no. 4:62-63 Ap '60.

(DRUGS)

(MIRA 13:6)

APPROVED FOR RELEASE: 07/12/2001

CIA-RDP86-00513R000929610017-6"

"APPROVED FOR RELEASE: 07/12/2001

CIA-RDP86-00513R000929610017-6

MIKHEL'SON, L.A. [deceased]; LEVINA, Ye.A.

New foreign drugs. Med. prom. 14 no. 5:67-68 My '60.

(MIRA 13:9)

(DRUGS)

APPROVED FOR RELEASE: 07/12/2001

CIA-RDP86-00513R000929610017-6"

"APPROVED FOR RELEASE: 07/12/2001

CIA-RDP86-00513R000929610017-6

LEVINA, Ye.A.

New foreign preparations. Med.prom. 16 no.4156-59 Ap '62.
(MIRA 15:8)
(DRUGS)

APPROVED FOR RELEASE: 07/12/2001

CIA-RDP86-00513R000929610017-6"

"APPROVED FOR RELEASE: 07/12/2001

CIA-RDP86-00513R000929610017-6

LEVINA, Ye.F.

Problems and methods of hydrogeology for land improvement in
connection with Stalin's plan for the transformation of nature.
Bul. MOIP Otd. geol. 26 no.2:96 '51. (MIRA 11:5)
(Water, Underground)

APPROVED FOR RELEASE: 07/12/2001

CIA-RDP86-00513R000929610017-6"

LEVINA, Ye.F.

Orientation of a drainage system based on hydrogeological conditions.
Biul.MOIP.Otd.geol.38 no.2:159 Mr.Ap '63.

(MIRA 16:5)

(Water, Underground)

(Drainage)

45793

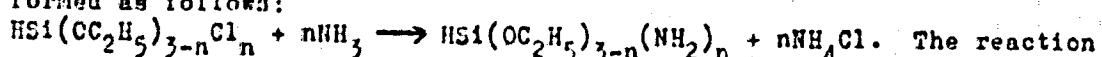
S/191/63/000/001/006/017
B101/B186

AUTHORS: Kleshchevnikova, S. I., Levina, Ye. F., Rumyantseva, Ye. I.

TITLE: Purification of tri- and tetraethoxysilanes from chlorine-containing compounds

PERIODICAL: Plasticheskiye massy, no. 1, 1963, 25-26

TEXT: Chlorine-substituted silanes which readily hydrolyze, reducing the stability of the finished product and corroding the apparatus, are formed as by-products in the synthesis of tri- and tetraethoxysilanes from chlorosilane and ethanol. To eliminate them, it is suggested that bubbling with N_2 which removes most of the resulting HCl should be followed by bubbling with anhydrous NH_3 gas. Triethoxysilane with a chlorine content of 1.2-1.5% was bubbled in a mixer with NH_3 , taking 20-25% more NH_3 than required to bind the Cl. Amino compounds were formed as follows:



Card 1/2

Purification of tri- and ...

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B101/B186

mixture remained in the vessel for 1.5-2 hrs to polymerize the amine precipitate, and was then filtered. The filtrate was fractionated. The fraction boiling at 131-134°C consisted of pure $\text{HSi}(\text{C}_2\text{H}_5)_3$ and contained neither chlorine nor nitrogen. Commercial tetraethoxysilane containing 0.5% Cl was purified in the same manner.

Card 2/2

Extracta Medica Sec 17 Public Health Vol. 1/8 Aug 55

2839. LEVINA E.I. • The efficacy of anti-tb vaccination in infants isolated from patients with open tb (Russian text) SO-VETSK. MED. 1954, 9(14-15) v. /g
It was shown that vaccinated children who were isolated from patients with open tb, showed an infection rate which was 1.5 times lower during the 1st year of life, and 4 times lower during the second. Mortality was also lower.

Frey - Berlin (XV.7,10,17)

Inst Tuberculosis, AMS USSR

"APPROVED FOR RELEASE: 07/12/2001

CIA-RDP86-00513R000929610017-6

LEVINA, Ye.I.

Prevention of tuberculosis in children in contact with patients
with open forms of tuberculosis. Trudy Inst. tub. AMN 7:20-33
58.

(MIRA 13:10)

(TUBERCULOSIS--PREVENTION)

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CIA-RDP86-00513R000929610017-6"

"APPROVED FOR RELEASE: 07/12/2001

CIA-RDP86-00513R000929610017-6

RIECH, Alfred; LEVINA, Ya.M. [translator]; ZYKOV, D.D., red.

[Fundamentals of the technology of organic substances] Osnovy
tekhnologii organicheskikh veshchestv. Moskva, Goskhimizdat,
1959. 532 p. (MIRA 14:3)

(Chemistry, Organic)

APPROVED FOR RELEASE: 07/12/2001

CIA-RDP86-00513R000929610017-6"

LEVINA, Ye. N.

LEVINA, Ye. N. - "Characteristics of the Aerobic Microflora of the Intestines in Bacterial Dysentery." Sub 12 Jun 52, Acad Med Sci USSR. (Dissertation for the Degree of Candidate in Biological Science).

SO: Vechernaya Moskva January-December 1952

"APPROVED FOR RELEASE: 07/12/2001

CIA-RDP86-00513R000929610017-6

KORSHAKOVA, A.S.; SEKRETA, P.M.; MIKULINSKAYA, Ye.Ya.; LEVINA, Ye.N.; TIMAKOV, V.D.,
professor, direktor.

Practices for the prevention of dysentery. Zhur.mikrobiol.epid.i immin. no.
7:7-11 Jl '53. (MLRA 6:9)

1. Institut epidemiologii i mikrobiologii imeni pochetnogo akademika N.P.
Gamalei Akademii meditsinskikh nauk SSSR. (Dysentery)

APPROVED FOR RELEASE: 07/12/2001

CIA-RDP86-00513R000929610017-6"

USSR/Medicine - Dysentery

FD-1642

Card 1/1 : Pub. 148-22/28

Author : Levina, Ye. N.

Title : The characteristics of aerobic microflora of the intestines in bacillary dysentery. Report II.

Periodical : Zhur. mikro. epid. i immun. 7, 87, Jul 1954

Abstract : An investigation was made of the effect of certain intestinal micro-organisms (bacteria of the Bacilli Coli group) on the causative agents of bacillary dysentery. Results of the experiments indicate that there are both antagonistic and synergistic relationships between Coli bacteria and the various types of dysentery bacteria. These relationships vary in healthy and diseased persons. No references are cited.

Institution : Institute of Epidemiology and Microbiology imeni Gamaleya, Academy of Medical Sciences USSR (Dir.-Prof. V. D. Timakov)

Submitted : February 23, 1954

USSR / Microbiology. Antibiosis and Symbiosis. Antibiotics. F-2

Abs Jour: Referat Zh.-Biol., No 6, 25 March, 1957, 21824

Author : Levina, E.N.

Inst :

Title : The Study of Intestinal Bacteria which Activate the Growth of Dysentery Bacteria.

Orig Pub: V.sb.: Izmenchivost mikroorganizmov, M., Medgiz, 1956,
205-210

Abstract: It was shown that dysentery patients excrete strains of intestinal bacteria, which activate the growth of dysentery bacteria. The strains of intestinal bacteria excreted by healthy people inhibit the growth of dysentery bacteria. The 68 strains of intestinal bacteria investigated in this study which activate the growth of dysentery bacteria belong to the group of Bact. coli aerogenes-citrovorum (75% -- Bact. coli aerogenes, 25% -- Bact. coli citrovorum). After 24 hours' growth, the intestinal bacterial activators sharply alkalinize the medium, and inhibitor strains acidify it. The intestinal bacterial activators are serologically nonhomogeneous.

Card : 1/1

-3-

MEYSEL', M.N.; KABANOVA, Ye.A.; LEVIHA, Ye.N.; PISHCHURINA, M.M.

Fluorescent antibodies and their use in cytology and microbiology.
Izv. AN SSSR. Ser. biol. no.6:718-732 N-D '57. (MIRA 10:12)

1. Institut epidemiologii i mikrobiologii imeni Gamaleya AMN SSSR,
Institut mikrobiologii AN SSSR i Institut biofiziki AN SSSR.
(ANTIGENS AND ANTIBODIES) (FLUORESCENCE MICROSCOPY)

LEVINA, Ye.N.

Fluorescein-labeled antibodies in the detection of *Bacillus anthracis*.
Report No.1. Zhur.mikrobiol.evid. i immun. no.1:9-15 Ja '58.
(MIRA 11:4)

1. Iz Instituta epidemiologii i mikrobiologii imeni Gamalei AMN SSSR.

(BACILLUS ANTHRACIS,

detection with fluorescein-labeled antibodies (Rus)

(FLUORESCIN,

labeling of antibodies in detection of *Bacillus anthracis*

(Rus)

MEYSEL', M.N.; KABANOVA, Ye.A.; LEVINA, Ye.N.; STRAKHOVA, V.A.

Some new possibilities of using fluorescence microscopy in
microbiology. Izv. AN SSSR. Ser. biol. no.5:533-543
S-0 '58. (MIRA 11:10)

1. Institut mikrobiologii AN SSSR, Institut epidemiologii i mikro-
biologii imeni N.Y. Gamaleya AMN SSSR i Rublevskaya ordena Lenina
vodoprovodnaya stantsiya Mnevodoprovoda.
(FLUORESCENCE MICROSCOPY) (MICROBIOLOGICAL RESEARCH)

MEYSEL', M.N.; KABANOVA, Ye.A.; LEVINA, Ye.N.; STRAKHOVA, V.A.

Fluorescent microagglutination of bacteria. Zhur.mikrobiol.epid. i
immun. 30 no.2:45-50 F '59. (MIRA 12:3)

1. Iz Instituta epidemiologii i mikrobiologii imeni Gamalei AMN
SSSR i Instituta mikrobiologii AN SSSR.

(SHIGELLA,

luminescent micro-agglut. (Rus))

(AGGLUTINATION,

luminescent micro-agglut. of Shigella (Rus))

MEYSEL', M.N.; KABANOVA, Ye.A.; LEVINA, Ye.N.; STRAKHOVA, V.A.

A rapid fluorescence method for the identification of pathogenic bacteria of the enteric group. Zhur.mikrobiol.,epid.i immun. 30 no.12;3-6 D '59. (MIRA 13:5)

1. Iz Instituta epidemiologii i mikrobiologii imeni Gamalei,
instituta mikrobiologii AN SSSR i Rublevskoy ordena Lenina
vodoprovodnoy stantsii.
(BACTERIA)
(MICROSCOPY)

LEVINA, Ye. N. i MYSHL', M. N.

Luminescent detection of the lysis of a bacteria by phages. Zhur.
mikrobiol.epid.i imunn. 31 no.1:11-15 Ja '60. (MIRA 13:5)

1. Iz Instituta epidemiologii i mikrobiologii imeni Gamalei AMN
SSSR i Instituta mikrobiologii AM SSSR.
(BACTERIOLYSIS)

7(2)

SOV/16-60-3-1/37

AUTHORS: Glubokina, A.I., Kabanova, Ye.A., Levina, Ye.N., Pishchurina, M.M.

TITLE: The Method of Preparing and Using Sera Labeled With Fluorescein Isocyanate in Microbiology ^b

PERIODICAL: Zhurnal mikrobiologii, epidemiologii i immunobiologii, 1960, Nr 3,
pp 3 - 8 (USSR) ^{3/}

ABSTRACT: The authors describe a method of preparing sera labeled with fluorescein isocyanate, used for detecting various antigens in microscopic slides prepared from bacterial suspensions, smears, impressions and sections of tissues and organs, and also for detecting antibodies. The luminescent sera are prepared from the globulin fractions of immune antibacterial, antiviral, antiglobulin (specific) or normal sera and fluorescent dye in the form of fluorescein isocyanate. The method of using the labeled sera is also described.

Card 1/2

SOV/16-60-3-1/37

The Method of Preparing and Using Sera Labeled With Fluorescein Isocyanate in Microbiology

There are 28 references, 12 of which are Soviet, 15 English and 1 German.

ASSOCIATION: Institut epidemiologii i mikrobiologii imeni Gamalei AMN SSSR (Institute of Epidemiology and Microbiology imeni Gamaleya of the AMN, USSR)

SUBMITTED: April 15, 1959

Card 2/2

LEVINA, Ye.N.; NEYMARK, F.M.

Detection of whooping cough bacteria by means of luminescent anti-bodies. Zhur. mikrobiol. epid. i immun. 31 no. 5:3-7 My '60.
(MIRA 13:10)

1. Iz Instituta epidemiologii i imeni Gamalei AMN SSSR i Moskovskoy
sanitarno-epidemiologicheskoy stantsii.
(HEMOPHILUS PERTUSSIS) (ANTIGENS AND ANTIBODIES)

LEVINA, Ye.N.; BALAYEVA, N.M.

Detection of Rickettsia with the aid of luminescent antibodies.
Zhur.mikrobiol.epid.i immmun. 31 no.11:22-25 N '60. (MIRA 14:6)

1. Iz Instituta epidemiologii i mikrobiologii imeni Gamalei AMN SSSR.
(RICKETTSIA) (ANTIGENS AND ANTIBODIES)

S. I. CHIKHALIA, N.M., REVINA, T.A.U.

Detection of antibodies produced by the method of fluorescence
antibodies in the organism of experimental animals and insects.
Izv. AN GSSR. Ser. biol. no.3435-438 Kyiv-162. (1971.17.5)

1. Institute of Epidemiology and Microbiology, Academy of
Medical Sciences of the U.S.S.R., Moscow.

LEVINA, Ye.N.; ARKHIPOVA, V.R.

Preparing of capsular anthrax sera and methods for determining
their immunological activity. Lab. delo no.10:619-623 '64.

(MIRA 17:12)

1. Laboratoriya morfologii mikroorganizmov i elektronnoy
mikroskopii (zaveduyushchiy - doktor med. nauk A.A. Avakyan)
Instituta epidemiologii i mikrobiologii im. N.F. Gamalei
(direktor .. prof. P.A. Vershilova) i laboratoriya po kontrolyu
preparatov protiv osobo opasnykh infektsiy (zaveduyushchiy -
kand. med. nauk R.A. Saltykov) Gosudarstvennogo kontrol'nogo
instituta meditsinskikh i biologicheskikh preparatov im. L.A.
Tarasevicha (direktor I.F. Mikhaylov), Moskva.

LEVINA, Ye.N.; KATS, I.N.

Antigenic structure of the vaccinal strain of *Bacillus anthracis*
Zhur. mikrobiol., epid. i immun. 41 no.10:85-89 '64.

(MIRA 18:5)

1. Institut epidemiologii i mikrobiologii imeni Gamalei AMN SSSR.

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1. The following information is contained in the document:

2. The following information is contained in the document:
a. Direct methods of identification
b. Indirect methods of identification

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a. Identification of the subject
b. Description of the subject

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a. Identification of the subject
b. Description of the subject

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100% fixed basis

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CIA-RDP86-00513R000929610017-6"

PARKHOMENKO, Vasiliy Yefimovich, dotsent; PICHUGIN, A.P., inzh., red.;
BONDARENKO, B.I., ratsensent; LEVINA, Ye.S., vedushchiy red.;
~~YUDOTOVA, I.G., tekhn.red.~~

[Technology of petroleum and gas refining] Tekhnologija
pererabotki nefti i gaza. Izd.2., perer. i dop. Moskva, Gos.
nauchno-tekhn. izd-vo neft. i gornn-toplivnoi lit-ry, 1958.
(MIRA 12:1)

452 p.
(Petroleum--Refining) (Gas, Natural)

"APPROVED FOR RELEASE: 07/12/2001

CIA-RDP86-00513R000929610017-6

SHEKHTER, Yuliy Naumovich; LEVINA, Ye.S., red.

[Protection of metals against corrosion; inhibitors,
oils and greases] Zashchita metallov ot korrozii; ingi-
bitory, masla i smazki. Moskva, Khimiia, 1964. 120 p.
(MIRA 17:12)

APPROVED FOR RELEASE: 07/12/2001

CIA-RDP86-00513R000929610017-6"

SABLINA, Zinaida Aleksandrovna; GUREVICH, Andrey Aleksandrovich; LEVIHA,
Ye.S., yadushchiiy red.; MUKHINA, E.A., tekhn.red.

[Additives to motor fuels] Prisadki k motornym toplivam. Moskva,
Gos.nauchno-tekhn.izd-vo neft. i gorno-toplivnoi lit-ry, 1959.
134 p. (MIRA 12:12)

(Motor fuels)

SHASHKIN, Prokhor Ivanovich. Prinimali uchastiya: ZILLER, G.K.; BEREZHNAIA,
V.D. LEVINA, Ye.S., vedushchiy red.; POLOSINA, A.S., tekhn.red.

[Reclamation of spent petroleum oils] Regeneratsiya otrabotannykh
neftianykh masel. Moskva, Gos.suchno-tekhn.izd-vo neft. i gorno-
toplivnoi lit-ry, 1960. 303 p.
(MIRA 13:11)
(Oil reclamation)

POPOV, Sergey Sergeyevich [deceased]; YARLONSKIY, V.S., prof., red.;
KHROMOGIN, N., insh., retsenzant; LEVINA, Ye.S., vedushchiy
red.; MEDOTOVA, I.G., tekhn.red.

[Transportation of petroleum, petroleum products, and gas]
Transport nefti, nefteprodnktov i gaza. Issled., porer, i dop.
Pod red. V.S. Iablonskogo. Moskva, Gos.nauchno-tekhn.izd-vo
neft. i gorno-toplivnoi lit-ry, 1960. 305 p.

(MIRA 14:2)

(Petroleum--Transportation) (Gas, Natural--Transportation)

ROZENBERG, Yuriy Aleksandrovich; VINOGRADOVA, Irina Ernestovna; LEVINA,
Ye.S., vedushchiy red.; MEDOTOVA, I.G., tekhn.red.

[Lubrication of machinery mechanisms; selection and use of
lubricating oils] Smeski mekhanizmov mashin; vybor i primenenie
masel. Moskva, Gos.sauchno-tekhn.izd-vo neft. i gorno-toplivnoi
lit-ry, 1960. 339 p. (MIRA 14:2)
(Lubrication and lubricants)

EMINOV, Ye.A.; OSHER, R.N.; PATSUKOV, I.P.; CHEKAVTSEV, N.A.; MAZYRIN, I.V.;
PUKS, G.I.; VLADZIYEVSKIY, A.P.; PATSUKOV, I.P.; AVIRELEV, A.V.;
LOPOYAN, G.S.; PETROV, G.G.; KOZOREZOVA, A.A.; LISITSKIY, K.Z.;
YAKOBI, M.A.; BELYANCHIKOV, G.P.; IVANOV, V.S.; VORONOV, N.M.; RU-
MYANTSEV, V.A.; ZILMER, G.K.; BEREZHNAIA, V.D.; LEVINA, Ye.S.
vedushchiy red.; TROFIMOV, A.V., tekhn.red.

[Manual on the uses and consumption standards of lubricants] Spra-
vochnik po primeneniiu i normam raskhoda smazochnykh materialov.
Moskva, Gos.nauchno-tekhniko-izd-vo neft. i gorno-toplivnoi lit-ry,
1960. 703 p.
(Lubrication and lubricants)

PETROV, N.A., red.; PETRENKO, L.I., red.; SAVITSKIY, P.S., red.; SINITSIN,
V.I., red.; KOLOTYRKIN, Ya.M., red.; SYRKUS, N.P., red.; ROMM,
R.F., red.; ANTYCHEV, P.I., red.; VARTAZAROV, S.Ye., red.;
ZAITSEV, A.I., red.; ZEZYULINSKIY, V.M., red.; ZEDGINIDZE, G.A.,
red.; MARTYNEKIN, F.F., red.; ROGACHEV, V.I., red.; SLATINSKIY,
A.N., red.; LEVINA, Ye.S., vedushchiy red.; TITSKAYA, B.F.,
vedushchiy red.; PERSHINA, Ye.G., vedushchiy red.; IONEL', A.G.,
vedushchiy red.; ZARETSKAYA, A.I., vedushchiy red.; MUKHINA, E.A.,
tekhn.red.

[Transactions of the Conference on the Introduction of Radioactive
Isotopes and Nuclear Radiation into the National Economy of the
U.S.S.R.] Trudy Vsesoiuznogo soveshchanija po vnedreniju radio-
aktivnykh izotopov i isidernykh izluchenij v narodnoe khozisistvo
SSSR. Pod red. N.A.Petrova, L.I.Petrenko i P.S.Savitskogo.
Moskva, Gos.sauchno-tekhn.izd-vo naft. i gorno-toplivnoj lit-ry.
Vol.1. [General aspects of isotope applications. Instruments
with sources of radioactive radiation. Radiation chemistry.
Chemical and petroleum refining industry]

(Continued on next card)

PETROV, N.A.---(continued) Card 2.

Obshchie voprosy primeneniia izotopov. Pribory s istochnikami radioaktivnykh izlucheni. Radiatsionnais khimiia. Khimicheskais i neftepererabatyvaiushchais promyshlennost'. 1961. 340 p. Vol.2. [Construction and the industry of construction materials. Light industry. Food industry and agriculture. Medicines] Stroitel'stvo i promyshlennost' stroitel'nykh materialov. Legkaisa promyshlennost'. Pishchevaisa promyshlennost' i sel'skoe khozisintvo. Meditsina. 1961. 267 p.

(MIRA 14:4)

1. Vsesoyuznoye soveshchaniye po vnedreniyu radioaktivnykh izotopov i yadernykh izlucheni v narodnoye khozyaystvo SSSR.
Riga, 1960.

(Radioisotopes)

(Radiation)

FAL'KEVICH, Aleksandr Semenovich; LEVINA, Ye.S., red.; TROFIMOV, A.V.,
tekhn. red.

[New developments in gas pipeline welding] Novoe v svarke ga-
soprovodov. Moskva, Gos. nauchno-tekh. izd-vo neft. i gorno-
toplivnoi lit-ry, 1961. 34 p.
(MIRA 14:5)
(Gas, Natural--Pipelines) (Pipelines--Welding)

ZLOTNIKOV, Il'ya Matveyevich; RAKOV, Petr Petrovich; LEVINA, Ye.S., vedushchiy red.; MUKHINA, E.A., tekhn. red.

[Recovery, refining, and use of casing-head gas] Sbor, pererabotka i ispol'sovanie poputnogo neftianogo gaza. Moskva, Gos. nauchno-tekhn. izd-vo neft. i gorno-toplivnoi lit-ry, 1961. 35 p. (MIRA 14:7)
(Gas, Natural)

ARUTYUNOV, Aleksey Ivanovich; LEVINA, Ye.S., vedushchiy red.; TROFIMOV, A.V.
tekhn. red.

[Low temperature separation of natural gas] Nizkotemperaturnaia se-
paratsiya prirodnogo gaza. Moskva, Gos. nauchno-tekhn. izd-vo neft.
i gorno-toplivnoi lit-ry, 1961. 48 p. (MIRA 14:7)
(Gas, Natural—Separation)

KREYN, S.E., red.; SANIN, P.I., red.; MONASTYRSKIY, V.N., red.; EMINOV, Ye.A., red.; LEVINA, Ye.S., vedushchiy red.; TITSKAYA, B.F., vedushchiy red.; POLOSINA, A.S., tekhn. red.

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SHIMONAYEV, S.S.; CHERTKOV, Ya.B.; LIVSHITS, S.M.;
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Bending of circular plates freely supported along an arbitrary circumference and unsymmetrically loaded. Nauch.dokl.vys. shkoly; mash.i prib. no.4:86-92 '58. (MIRA 12:5)

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(Elastic plates and shells)

AUTHORS: Levina, Z.M. and Reshetov, D.N. SOV/121-58-8-1/29

TITLE: The Design of Faceplates (Turntables) of Metal Cutting Machine Tools for Stiffness (Raschet planshayb (kruglykh stolov) metallorezhushchikh stankov na zhestkost')

PERIODICAL: Stanki I Instrument, 1958, Nr 8, pp 1-6 (USSR)

ABSTRACT: The design of rotating turntables of hollow construction supported on circular V-shaped slideways and spigotted on a central post is considered. The substitute structure subject to analysis is a hollow circular plate of uniform height, uniform top and bottom walls joined by radial and annular webs, supported on an annular surface. Experiments have shown this structure to have an elastic deformation close to the actual turntable. Formulae applicable to solid plates are used, wherein the "cylindrical stiffness" is replaced by an equivalent stiffness obtained from the potential energy of deformation when taking into account the deformation of the webs, including their shear deformation. Equation (1) is a simplified expression for the equivalent stiffness, wherein the shear deformation in the radial webs is taken

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into account by means of a separate coefficient. The equivalent bottom wall thickness takes into account the existence of holes by a formula (Equation 2) stated to have been experimentally verified. The annular webs, in the presence of radial webs, have almost no effect on the elastic deformation and are neglected. The substitution analysis was verified by testing of models (Fig 3) made of transparent plastic. Discrepancies did not exceed 15% except at the load application points. The turntable of the model 1532 vertical turning mill gave in full-scale tests the same stiffness as computed by the methods of this paper. The loading on the faceplate consists of a symmetrical force, a symmetrical moment due to clamping the workpiece in the jaws, a uniformly distributed force due to the faceplate weight and a skew symmetrical moment, due to the moment of the cutting forces. The deformation in the case of clamping the workpiece with bolts is by a whole order of magnitude lower than in clamping between jaws. Satisfactory operation of the slideways depends on

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the faceplate slope whilst deformed. The maximum slope is found in that radial cross-section passing through the most highly loaded clamping jaw and is given in equations (4) and (5) for the cases of uniformly distributed and four-point jaw pressures. The expressions contain numerical coefficients, which are plotted in four graphs (Figs 5 and 6) against the ratio of clamping diameter to slideway diameter. In the presence of a central hydraulic unloading device, the slopes computed from equations (4) and (5) must be reduced and owing to the faceplate weight, they must be increased by amounts determined with the help of coefficients given in Table 1. The total slideway load is found from equation (7) (symmetrical loading) and (8) (skew symmetrical loading). The latter is simplified in equation (9) and the maximum slideway load per unit length is given in equation (10) using numerical coefficients plotted in Fig 7 against the ratio of clamping to slideway diameters. Fig 8 shows polar diagrams of faceplate slopes and slideway pressures.

Card 3/5 The maximum slope may exceed the mean by a factor of 3,

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when the workpiece is mounted in four jaws. The maximum is reduced by 25% with three jaws, and by 30% in the presence of a central unloading device. In large machines with turntables supported on two annular slideways the load is found in practice to be uniformly distributed among the jaws because the workpiece weight greatly exceeds the cutting force and many jaws are used. Faceplates with central kingposts in two bearings are statically indeterminate systems. Equation (11) gives the slope resulting from the moment of the cutting forces applied to this system. The equation contains a term, psi, which takes account of the effect of the kingpost and is expressed in a formula containing 3 numerical coefficients plotted in Fig 11 against the ratio of the clamping to slideway diameters. In the presence of a kingpost, the faceplate deformation increases on the average about 1.5 times at small clamping diameters and decreases 1.8 times at large diameters. The latter is characteristic of vertical turning mills. The limiting height of tall slender components to avoid tipping over can be determined